

Corresponding outer edges. Each layer is in the form of a monolayer of solid spheres, taking the form of a 'bubble pack.' The layers can be made from soft Rubber, gel, soft plastic, etc. In affixing the layers, spaces are created between The spheres, which become distorted or obliterated upon compression with walking.

3- Compressible rubber cushions as (4,5) in Figure 1 and (8,9,10,11) in Figure 2. The cushions serve as the only contact points with the ground below. They are of Thickness from  $\frac{1}{4}$  to 1 inch, depending on the type of shoe. The undersurface May be scored, or patterned depending on the function. The cushions are attached to the above skeleton (6,7) in Figure 1 by short but sturdy bolts (8,9,10,15,16,17,18,19) in Figure 2. Alternatively, contact could be with adhesive Or staples. Each cushion (Figure 6) is made of a durable undersurface (29) and a Softer, compressible upper portion (28).

4- The skeletal support of the shoe, (6,7) in Figure 1, consists of 2 separate parts, Figures 4 and 5. Each part is separately attached to the rubber cushions below (as In claim #2.) In Figure 4, the back portion of the skeleton is configured to duplicate the arch of the foot. In Figure 4, (25,26,27) are solid but bendable, but (30,31) are empty spaces. This structure is duplicated in Figure 5, the toe portion of the skeleton, but with different dimensions.

The skeleton can be made of different possible materials, including plastic, composite, graphite, polyethylene, etc. The skeleton will bow downward under the force of contacting the surface, acting both as a dynamic cushion and unidirectional spring. Each part of the skeleton, Figures 4 and 5, is surrounded by a flexible rubber casing, and affixed to the mattress, 3 in Figure 1, by various possible adhesives.

Accessory, common components of the invention include #2 in Figure 1 (a thin Comfortable cloth cushion) and # 1 in Figure 1 (the shoe cover). The shoe cover is attached to the bottom surface of the skeleton.

While in the foregoing, embodiments of the present invention have been set forth in great detail for the purpose of making a complete disclosure of the invention. It may be apparent, to those of skill in the art that numerous changes May be made in such detail without departing from the spirit and principles of the Invention.

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